EM6610 e-Domotica Flush-Mounted Universal Dimmer 1-gang

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1.0 Introduction

Congratulations with the purchase of this high-quality Eminent e-Domotica product! This product has undergone extensive testing by Eminent's technical experts. Should you experience any problems with this product, you are covered by a five-year Eminent warranty. Please keep this manual and the receipt in a safe place.

1.1 Functions and features

The EM6610 Flush-Mounted Universal Dimmer 1-gang, will be referred to below as "dimmer". The dimmer is used to switch and dim luminaires (see technical data) via Z-wave using the e-Domotica e-Centre 2.

The dimmer automatically recognizes the connect load, is overload-proof, short-circuit-proof and hum-free, and has a soft start function which slowly dims up a connected load.

Caution: The dimmer requires a minimum load of 25 VA for operation. If this is not met, the dimmer may be damaged.

Caution: Connected devices can be damaged if you connect mixed loads (inductive and capacitive) at the same time.

Caution! *If you operate devices that do not correspond to the technical specifications (see technical data), you can damage the connected devices and the radio receiver.*

- *Only connect luminaires to the dimmer.*
- *Do not connect luminaires with energysaving lamp(s).*
- *Do not connect combinations of electronic and conventional transformers*
- *Only dimmable transformers may be connected.*
- *Connecting combinations of transformers and ohmic loads, incandescent lamps, 230 V halogen lamps is only permitted if the power of the ohmic load is max. 30% of the entire connected load.*

Note: *Do not use dimmers on socket-outlets! The risk of overloading and the risk of unsuitable appliances being connected is too high.*

Note: *If the load on connected wound transformers is too low, the dimmer may malfunction during operation. The load on the transformer should therefore be at least 40% of the nominal power of the transformer.*

Note: *An excessive load will trigger the dimmer's overload protection. Reduce the connected load and then switch the dimmer on again.*

Note: *If you install several dimmers next to each other, reduce the maximum load allowed by 20% because of the reduced heat dissipation.*
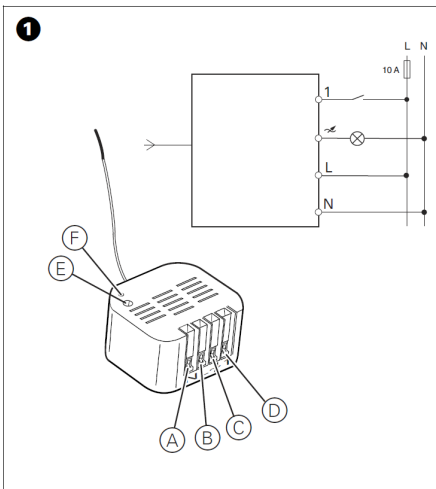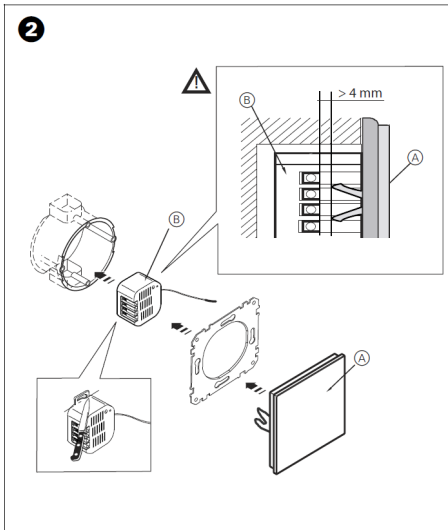

Figure 1 – EM6610 connectors

Figure 2 – Mounting the EM6610

1.2 Packing contents

The following parts need to be present in the packing:

• EM6610 e-Domotica Flush-Mounted Universal Dimmer 1-gang
• Manual

2.0 How to install the dimmer

Install the dimmer simply "invisibly" near the load to be connected, for example in a flush-mounted installation box with a blanking cover (Fig. 2) or ceiling junction box.

Risk of fatal injury from electrical current.
If you do not have enough electrical skills, do not continue and let a certified electrician do the job for you. Otherwise you might get injured and/or electrocuted. Observe the country specific regulations.

Risk of fatal injury from electrical current.
The dimmer has no basic insulation and must be installed with protection against accidental contact.

Risk of fatal injury from electrical current.
When a blanking cover or other cover is installed, the distance from the fixing brackets or screws (of the blanking cover or other cover, Fig. 2 A) to the connections of the dimmer (Fig. 2 B) must be at least 4 mm once installed. Suitable covers or a lower installation box might have to be used.

The fixing brackets or fixing screws of the blanking cover may also not press against the housing; if necessary, change the mounting position of the dimmer accordingly.

Risk of fatal injury from electrical current.
The outputs may carry an electrical voltage even when the dimmer is switched off. Always disconnect the fuse in the incoming circuit from the supply before working on connected loads.

1. Disconnect the circuit from the mains.
2. Connect the dimmer as shown (Fig. 1):
    a. Neutral conductor at terminal "N" (A).
    b. Phase at terminal "L" (B).
    c. Luminaire at terminal "~" (C).
    d. Extension push-button (optional) at terminal "1" (D).
3. Place the antenna as far as possible from metal parts (connecting cables, retaining rings, etc.) to avoid interruptions to the Z-wave signal.

Metal surfaces in the immediate vicinity of the dimmer can affect reception. Therefore, do not install the dimmer in a flush-mounted box made of metal.

3.0 How to put the dimmer into operation

After installation:
1. Switch on the mains voltage.
2. The connected luminaires flicker for around ten seconds and then switch off again. The dimmer has detected the load and is ready for operation.

Note: The lights will flicker in this way (load detection) after every interruption in the mains voltage.

3.1 Add the switch to an e-Domotica e-Centre

1. Make sure your computer is completely started.
2. Open your computer's web browser.
3. Enter "http://ecentre" in the address bar of your web browser and press the 'Enter' key on your keyboard.
4. The webpage of the e-Centre will be shown. If the Wizard is started, click 'Exit Wizard' to go to the 'e-Domotica Products' page.
5. Click the 'Include' button. The e-Centre will start to search for new e-Domotica devices.
6. Press the button on the dimmer three times within 1,5 seconds.
7. A message will appear: 'Product found'.

If the device is not found, press the 'Exclude' button in the e-Centre's webpage and then click the button on your switch. After this procedure you can add the new device correctly.

8. Give the connected and found device a name, choose a location and click 'Save'.
9. The dimmer has now been added to the e-Centre. The e-Centre will now be able to control the switch.
10. You can now put the dimmer into the junction box. We suggest to disable the mains by turning off the main switch of the house when putting the dimmer in the junction box.

4.0 How to operate the dimmer

You can operate the dimmer by means of the following operating elements:
• EM6505 e-Domotica e-Centre
• EM6625 e-Domotica Push-button
• EM6511 e-Domotica Remote Control (using a scene)
• Smart phone or tablet

Switching/dimming luminaires
• Switching on/off: Press the button briefly. The luminaire is always switched on at the level of brightness that was last set (memory function).
• Dimming brighter/darker: Press on the device button on the e-Centre screen to set the level of brightness.

If the dimmer is switched on, the LED lights up (Fig. 1F).

You can also operate the dimmer at the device via the switch button (Fig. 1E). Only insulated tools may be used for this operation, e.g. an insulated phase tester.

5.0 What should I do if there is a problem?

The dimmer switches off regularly in the operating state or cannot be switched back on.
• The connected load is too great and the dimmer has overheated. Allow the dimmer to cool down and reduce the connected load.
• Rectify any possible short circuits. Then switch the dimmer on and wait until the load detection has ended (light stops flickering).

The load cannot be operated by the e-Centre, push-button or remote control?
• Make sure that the maximum range is not exceeded and that there are no metal surfaces such as metal cabinets in the Z-wave transmission path. If you want to check whether the problem is due to the transmission path, carry the transmitter to the receiver and operate it there.

5.1 Resetting the dimmer to the factory settings (Reset)

Under certain circumstances, it may be necessary to reset the dimmer to factory settings and to reconfigure:

1. Press the dimmer's switch button three times within approx. 1.5 seconds (with an insulated tool such as an insulated phase tester; Fig.1E). The LED (Fig.1F) in the dimmer blinks.
2. Then press and hold the switch button for approx. five seconds until the LED goes out. The dimmer has been reset to its factory settings.

Caution! When you reset to the factory settings, all the settings and connections for this device are deleted. The radio system may no longer work and will need to be reconfigured.

6.0 Z-wave Commands

Inclusion:
Have your Z-wave Controller entered inclusion mode, press the On/off button of the mini switch three times.

Exclusion:
Have your Z-wave Controller entered exclusion mode, press the On/off button of the mini switch three times. Once the node has been excluded, the LED will go into an interval of two seconds on and two seconds off.

Reset:
Press the On/Off button three times to enter inclusion mode. Within one second, press On/Off button again until LED is off. The home ID and node ID will be cleared and reset to factory default.

7.0 Frequently Asked Questions

The latest frequently asked questions for your product can be found on the support page of your product. Eminent will update these pages frequently to assure you have the most recent information. Visit www.e-domotica.com/support/faqs for more information about your product.

8.0 Service and support

This users manual has been carefully written by Eminent's technical experts. If you have problems installing or using the product, please fill out the support form at the website www.e-domotica.com/support/customer-service

You can also contact us by phone. Below you will find a list with phone numbers for each supported country.

Country	Phone number	Rate per minute*
Belgium (Dutch)	070 277 286	€0.30
Belgium (French)	070 277 286	€0.30
Denmark	+45 69918565	Local costs
Finland	+35 8942415826	Local costs
Germany	+49 (0)30 887 89 298	Local costs
Italy	+39 0240042016	Local costs
Norway	+47 21075033	Local costs
Spain	807 080 042	€0.41
Sweden	+46 840 309985	Local costs
The Netherlands	0900-3646368	€0.45
UK	+44 (0)203 318 9998	Local costs

* Rates mentioned in this table do not include cell phone charges.

9.0 Warning and points of attention

Due to laws, directives and regulations set out by the European parliament, some (wireless) devices could be subject to limitations concerning its use in certain European member states. In certain European member states the use of such devices could be prohibited. Contact your (local) government for more information about this limitations.

Always follow up the instructions in the manual, especially where it concerns devices which need to be assembled.

Warning: In most cases this concerns an electronic device. Wrong/improper use may lead to (severe) injuries!

Repairing of the device should be done by qualified Eminent staff. The warranty immediately voids when products have undergone self repair and/or by misuse. For extended warranty conditions, please visit our website at:
www.e-domotica.com/support/warranty

Tip: Eminent e-Domotica manuals are written with great care. However, due to new technological developments it can happen that a printed manual does not longer contain the most recent information.
If you are experiencing any problems with the printed manual or you can not find what you are looking for, please always check our website www.e-domotica.com first for the newest updated manual.

Also, you will find frequently asked questions in the FAQ section. It is highly recommended to consult the FAQ section. Very often the answer to your questions will be found here.

10.0 Warranty conditions

The five-year Eminent warranty applies to all Eminent e-Domotica products unless mentioned otherwise before or during the moment of purchase. When having bought a secondhand Eminent e-Domotica product the remaining period of warranty is measured from the moment of purchase by the product's first owner. The Eminent warranty applies to all Eminent e-Domotica products and parts inextricably connected to and/or mounted on the main product. Power supply adapters, batteries, antennas and all other products not integrated in or directly connected to the main product and/or products of which, without reasonable doubt, can be assumed that wear and tear show a different pattern than the main product are not covered by the Eminent warranty. Products are not covered by the Eminent warranty when subjected to incorrect/improper use, external influences and/or when opened by parties other than Eminent.

11.0 Declaration of Conformity

To ensure your safety and compliance of the product with the directives and laws created by the European Commission you can obtain a copy of the Declaration of Conformity concerning your product by sending an e-mail message to: info@eminent-online.com. You can also send a letter to:

Eminent Computer Supplies
P.O. Box 276
6160 AG Geleen
The Netherlands

Clearly state 'Declaration of Conformity' and the article code of the product of which you would like to obtain a copy of the Declaration of Conformity.